



# SPACE TO GROUND

1  
00:00:00,606 --> 00:00:02,936  
"HOUSTON, STATION  
ON SPACE TO GROUND."

2  
00:00:02,936 --> 00:00:05,616  
WELCOME TO SPACE TO GROUND,  
I'M KATHRYN MCLAURIN.

3  
00:00:05,616 --> 00:00:07,206  
IT WAS ANOTHER BUSY WEEK ON ISS.

4  
00:00:07,256 --> 00:00:11,596  
ON TUESDAY, MARK VANDE HEI  
AND SCOTT TINGLE COMPLETED A 7

5  
00:00:11,596 --> 00:00:13,146  
AND A HALF HOUR SPACEWALK.

6  
00:00:13,676 --> 00:00:16,506  
THE PRIMARY GOAL WAS TO SWAP  
THE LATCHING END EFFECTOR

7  
00:00:16,506 --> 00:00:19,756  
FROM THE SPACE STATION REMOTE  
MANIPULATOR SYSTEM B SIDE

8  
00:00:19,866 --> 00:00:23,256  
WITH A SPARE THAT WAS STOWED ON  
THE EXTERNAL STOWAGE PLATFORM 2.

9  
00:00:23,366 --> 00:00:25,736  
THE TASK ALSO REQUIRED  
THE SPACEWALKERS

10  
00:00:25,856 --> 00:00:28,256  
TO MOVE A WORKSITE  
INTERFACE FIXTURE ADAPTER

11  
00:00:28,256 --> 00:00:29,946

## AND CAMERA LIGHT ASSEMBLY

12

00:00:29,996 --> 00:00:32,446

FROM THE OLD LATCHING END  
EFFECTOR TO THE NEW ONE.

13

00:00:32,856 --> 00:00:36,026

OF COURSE, THERE WAS PLENTY  
TO DO INSIDE ISS AS WELL.

14

00:00:36,726 --> 00:00:39,826

ASTRONAUT JOE ACABA INSTALLED  
THE PLANT HABITAT SCIENCE

15

00:00:39,826 --> 00:00:43,026

CARRIER INTO THE NEW ADVANCED  
PLANT HABITAT FACILITY.

16

00:00:43,676 --> 00:00:46,396

THE HABITAT IS A NEARLY  
SELF-SUFFICIENT PLANT GROWTH

17

00:00:46,446 --> 00:00:47,536

SYSTEM THAT WILL BE USED

18

00:00:47,536 --> 00:00:50,396

TO CONDUCT PLANT BIOSCIENCE  
RESEARCH ON THE SPACE STATION,

19

00:00:50,836 --> 00:00:52,926

HELPING NASA PREPARE CREW  
TO GROW THEIR OWN FOOD

20

00:00:52,926 --> 00:00:56,286

IN SPACE DURING DEEP-SPACE  
EXPLORATION MISSIONS.

21

00:00:56,686 --> 00:00:58,756

LAST WEEK NASA ANNOUNCED  
THAT NASA

22  
00:00:58,756 --> 00:01:01,696  
AND CHALLENGER CENTER ARE  
WORKING TOGETHER TO FILM SEVERAL

23  
00:01:01,696 --> 00:01:03,466  
OF THE LESSONS CHRISTA  
MCAULIFFE PLANNED

24  
00:01:03,466 --> 00:01:06,416  
TO PERFORM ABOARD THE CHALLENGER  
SPACE SHUTTLE DURING THE TEACHER

25  
00:01:06,416 --> 00:01:07,196  
IN SPACE MISSION.

26  
00:01:08,116 --> 00:01:10,466  
NASA ASTRONAUTS JOE  
ACABA AND RICKY ARNOLD,

27  
00:01:10,656 --> 00:01:13,266  
BOTH FORMER CLASSROOM  
TEACHERS, WILL FILM THE LESSONS

28  
00:01:13,266 --> 00:01:15,596  
OVER THE NEXT SEVERAL MONTHS,  
INCLUDING EFFERVESCENCE,

29  
00:01:15,956 --> 00:01:19,256  
CHROMATOGRAPHY, LIQUIDS IN  
ZERO-G, AND NEWTON'S LAWS.

30  
00:01:19,636 --> 00:01:21,586  
FIND MORE WAYS TO BRING NASA

31  
00:01:21,586 --> 00:01:24,106  
INTO YOUR CLASSROOM DURING  
NASA'S A YEAR OF EDUCATION

32

00:01:24,106 --> 00:01:25,706  
ON STATION USING THE LINK BELOW.

33

00:01:26,466 --> 00:01:28,466  
KEEP SENDING YOUR  
QUESTIONS USING THE HASHTAG